Michigan's Public Safety Broadband Program
911 Emerging Technology Forum
April 19, 2017

Ms. Pamela Matelski, Director, Michigan's Public Safety Broadband Program

- Middle Class Tax Relief and Job Creation Act of 2012 created the First Responder Network Authority (FirstNet)
- Band Class 14 – 20 MHz of bandwidth in the upper 700MHz frequency range dedicated to build a Nationwide Public Safety Broadband Network (NPSBN)

FirstNet Spectrum
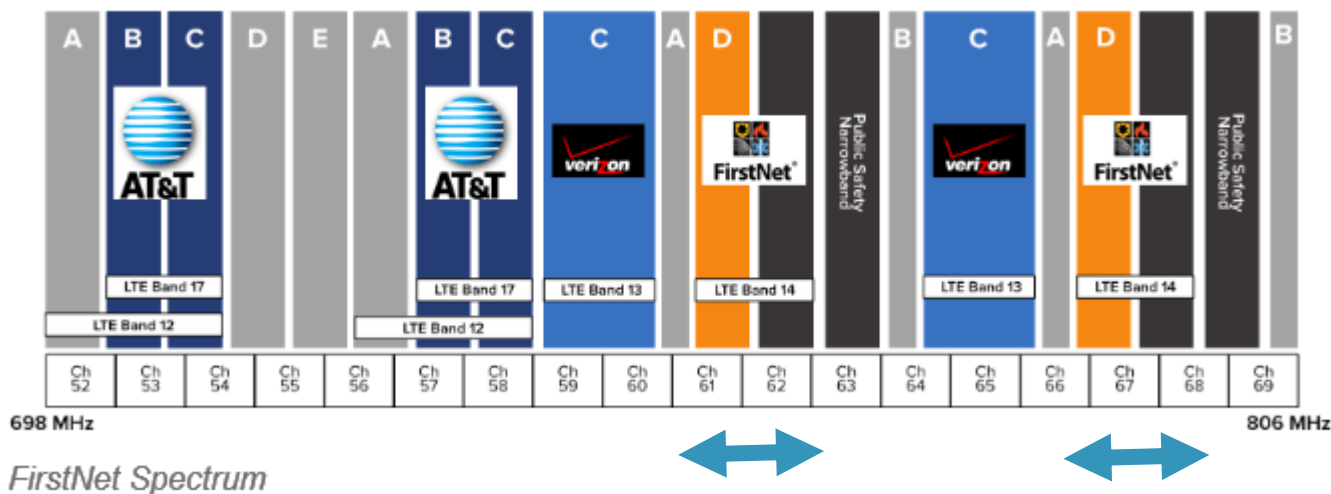
The Connected First Responder

- Internet Access
- Mobile VPN
- Field-based Server Apps
- Location-based Services
- Silent CAD Dispatch

- HD Streaming Video
- Telemetry
- LTE PTT and LMR Gateways
- Auditable DB Access
- NIMS ICS-based Services
- Gun Holster Sensors
- Bio-monitoring
- Environmental Sensors
- Heads-up Displays/Google Glasses

FirstNet RFP

- Public/Private
- Requires a 20
- Public safety
  and Preemp
- Monetize
- No tax do
  be fully
- Cybers
- Objec
- 25 years
- Phased-in depl

FirstNet State Plan

- Coverage
- Deployment
- Subscriber plans
- Device and application ecosystem
- State / local input
- Support model
  - System / Device / User / Application
- Security

Opt-In

- Fully endorse FirstNet Plan
  - Does not require any agency to use FirstNet
  - Be an active participant in shaping the program to the extent allowed

- Passively opt-in and enter into a Preferred Vendor Partnership with an existing carrier for a PS LTE network with priority and preemption for public safety
  - Does not use Band 14 spectrum
  - Does not require any agency to use Preferred Vendor
  - Creates vehicle for competitive rates and plans

- Do nothing
  - Implied Opt-in

Opt-Out

- Build and operate a state-owned RAN
- Build a state-owned RAN and contract to manage, operate, and maintain the network
- Enter into a Managed Services Partnership

    - State takes on all risks and responsibilities
    - Financial model that funds deployment, operation, and upgrades
        - All excess revenue returned
        - Cost to support national core
    - Negotiate licensed FirstNet spectrum
    - Compliance with national network policies and national core interface
    - State's role in network operation decisions
    - Feasibility of meeting requirements of the NTIA State Alternative Plan Process

Governor's Opt In/Out Considerations

Who will be impacted by this decision and have they been consulted?

What are the initial budget implications?

Does FirstNet meet our rural coverage needs?

Are we prepared to maintain and upgrade the network for 25 years?

What input will Michigan have in network operations and policy decisions?

Are opportunities generated for businesses and education in rural areas?

Would potential user fees offset the planned and unplanned RAN costs?

Michigan Public Safety Broadband Governance

GOVERNOR
The Honorable Rick Snyder

MPSCIB
Public Safety Communications Interoperability Board

FirstNet Single Point of Contact
David B. Behen, DTMB CIO

COMM-U Workgroup

AUX-COM Workgroup

MiPSB Workgroup
Public Safety Broadband Workgroup

Michigan Department of Management & Budget (DTMB)
Michigan Department of Natural Resources (DNR)
Michigan State Police (MSP)
Michigan Sheriff's Association (MSA)
Michigan Association of Chiefs of Police (MACP)
Michigan Association of Fire Chiefs (MAFC)
Michigan Association of Ambulance Services (MAAS)
911 Representation (MCDA)
Michigan Emergency Management Association (MEMA)
Michigan Department of Transportation (MDOT)
Michigan Tribal Representation
Michigan State Fire Marshall (SFM)
Michigan Mutual Aid Box Alarm System (MABAS)

Center for Shared Solutions
MiPSB Program

Ms. Pamela Matelski
Director / A-SPOC

SLIGP Project Team
SME Contract Support

Advisory Committees / Task Teams

MiPSB's Program Activities

- Grant Management
  - Monitor Activities
  - Quarterly Reporting

- Partnerships
  - FEMA Region V
  - Western States Alliance

- FirstNet Activities
  - State Consultation
  - SPOC Meetings
  - Consultation Task Teams
  - State Plan Input / Review

- Program Support
  - Contract Management
  - Budget
  - Procurement

MiPSB's Program Activities

- Education and Outreach
  - Conference Presentations
  - Regional Engagement Workshops
  - Social Media
  - Monthly Webinars

- Data Collection and Analysis
  - 200+ Agencies Surveyed
  - 17,000+ First Responders (33.8%)
  - 2,300+ Stakeholders engaged
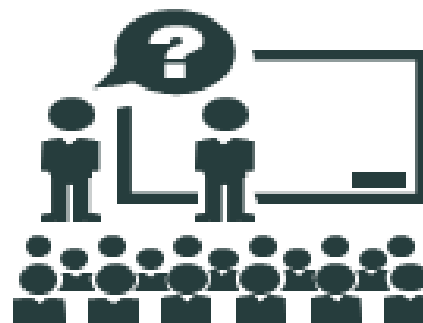
- Governance
  - Monthly Workgroup Meetings
  - Quarterly Interop Board Meetings
  - Technical Advisory Meetings

Stakeholders Engaged

Michigan:

2,300

National Median:

1,157

American Samoa

Guam

Above national median

Approximates national median

Below national median

District of Columbia

Puerto Rico

U.S. Virgin Islands

Coverage Objectives

FirstNet Baseline

State Input
Unique State/Tribal Datasets
Commercial/LMR Coverage

Federal Input

On Demand Temporary
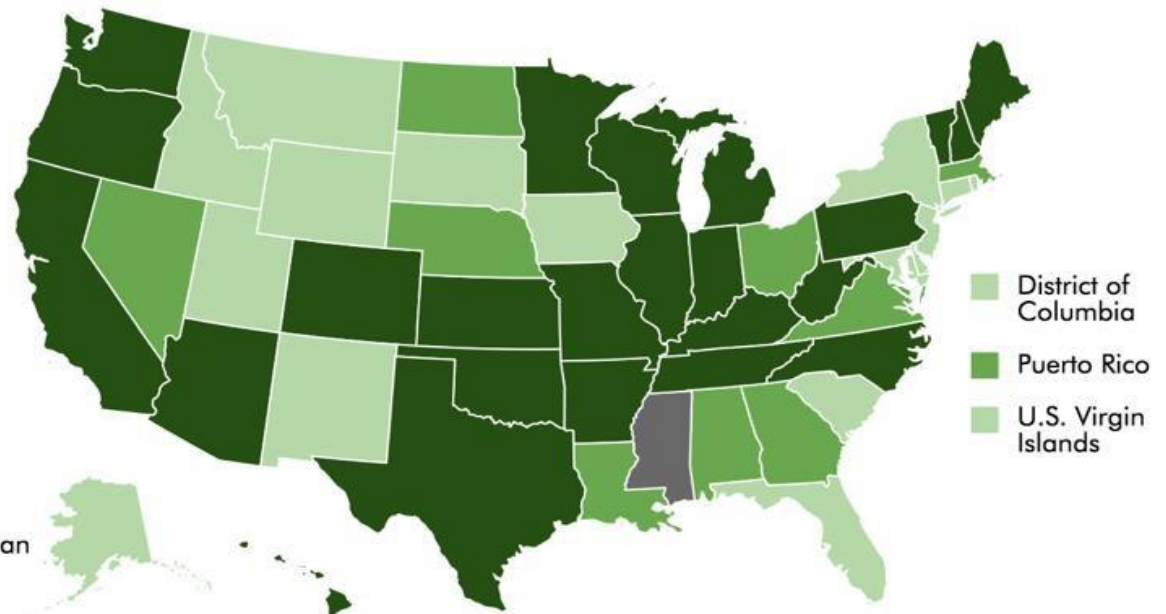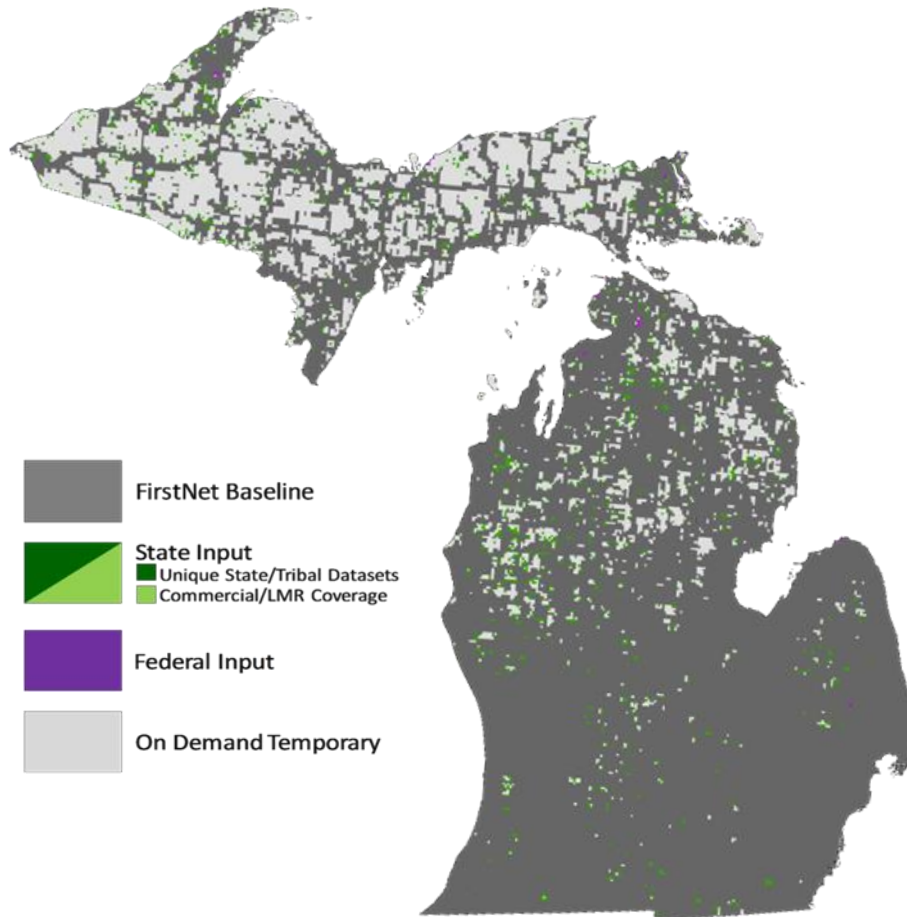
Calls for Service
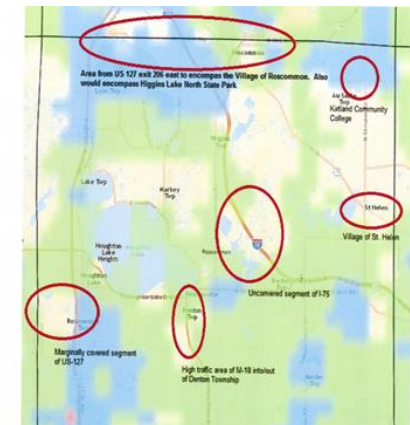
Critical Infrastructure

Application & Data Usage
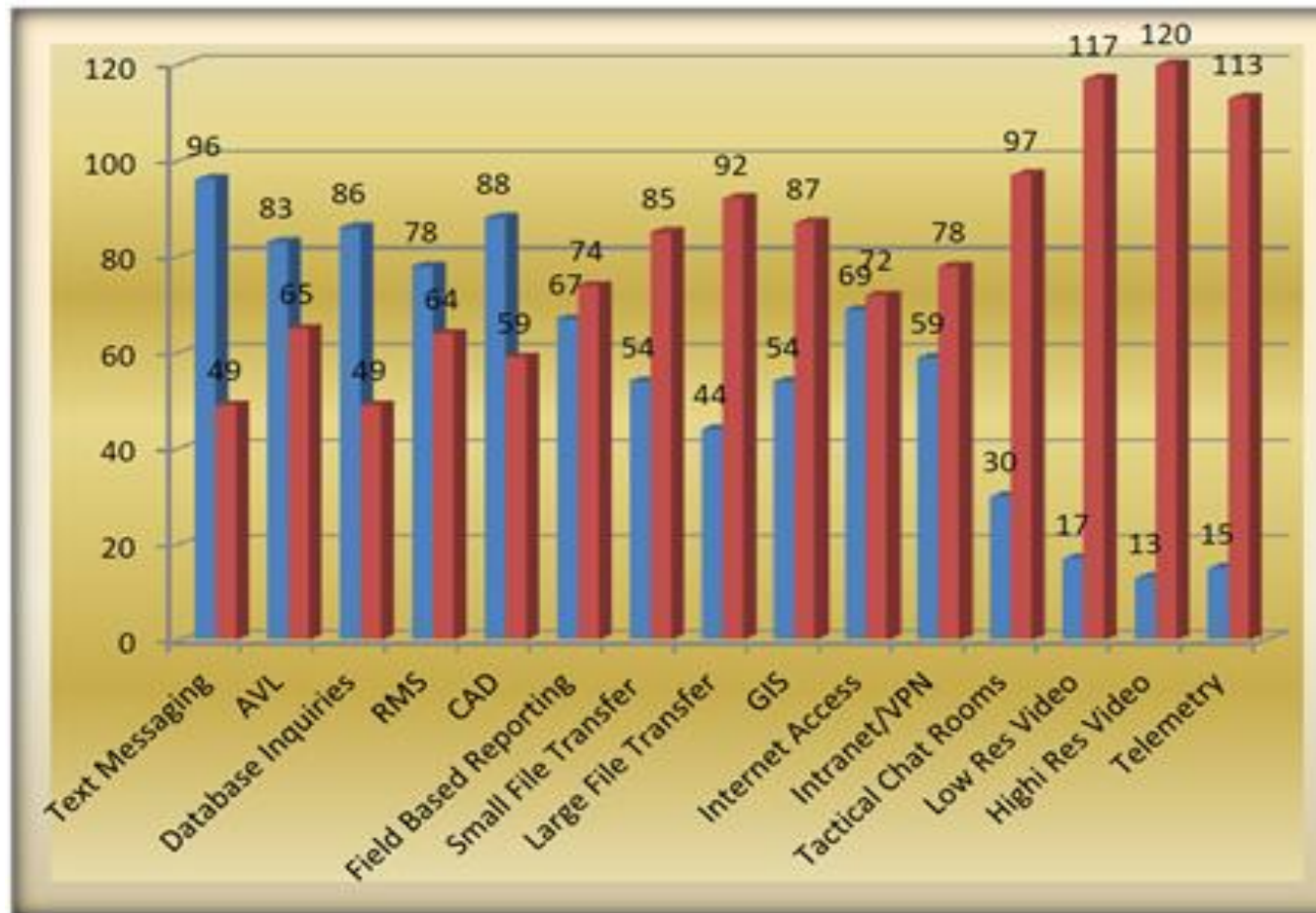
Michigan's Priorities

- **Rural Coverage**
  - Needed in areas not served, or underserved by commercial carriers
  - Highest potential for adoption
  - Highest potential for economic and quality of life impact for non-public service users

- **Water Coverage**
  - Second longest shoreline of any state at 3,126 miles
  - 11,037 lakes totaling 1,305 sq miles of inland water

- **International Border Crossings**
  - 721 miles of international border
  - Four border crossings/points of entry between the US and Canada
    - 3 of 4 rank in the top 20 busiest in the county for truck traffic

- **Urban Areas**
  - Most benefit from priority access to dedicated bandwidth due to population density and number of first responders

Read the full 2015 / 2016 Data Collection and Analysis Report on the MiPSB Website

Plan Evaluation

- Inclusion of Michigan's priorities

- Subscriber devices and applications authorized for use

- Financial model and customer plans

- Customer service and support

- Method for state to provide actionable input

- Analysis and mitigation of financial, operational, and technical risk

- All stakeholders involved in recommendation

State Plan Review Process

Timeline bars:

90 Days	45 Days		30 Days	90 Days			
90 Days	30 Days	15 Days	30 Days	30 Days	10 Days	5 Days	45 Days

Process flow:

State RAN Contract Award → FirstNet Delivers Draft State Plan → State Plan Review Team

State Plan Review Team:
- Governor's Office
- AG / Legal
- Procurement
- Security
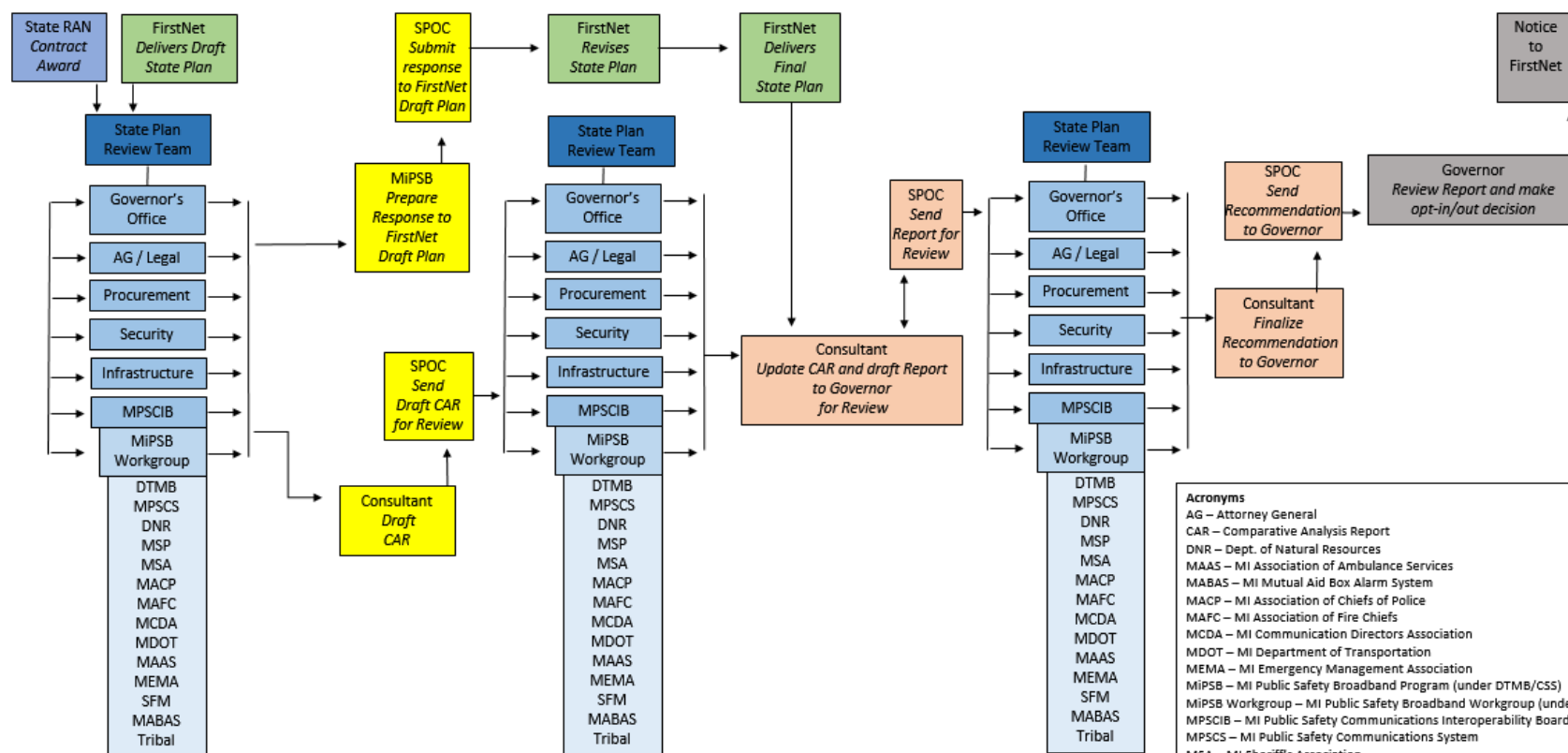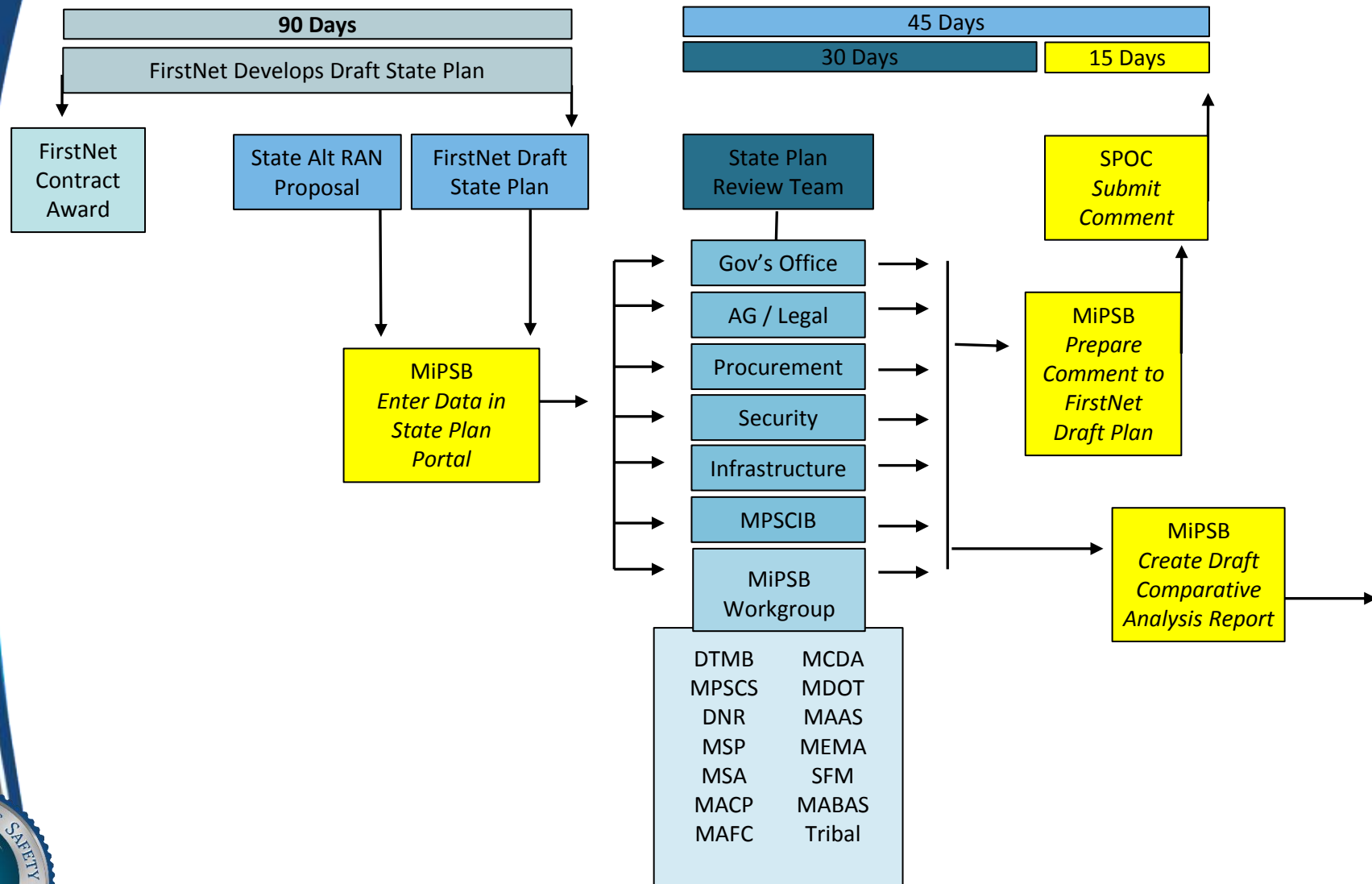- Infrastructure
- MPSCIB
- MiPSB Workgroup
  - DTMB
  - MPSCS
  - DNR
  - MSP
  - MSA
  - MACP
  - MAFC
  - MCDA
  - MDOT
  - MAAS
  - MEMA
  - SFM
  - MABAS
  - Tribal

SPOC Submit response to FirstNet Draft Plan

MiPSB Prepare Response to FirstNet Draft Plan

SPOC Send Draft CAR for Review

Consultant Draft CAR

FirstNet Revises State Plan → State Plan Review Team (Governor's Office, AG / Legal, Procurement, Security, Infrastructure, MPSCIB, MiPSB Workgroup — DTMB, MPSCS, DNR, MSP, MSA, MACP, MAFC, MCDA, MDOT, MAAS, MEMA, SFM, MABAS, Tribal)

FirstNet Delivers Final State Plan

Consultant Update CAR and draft Report to Governor for Review

SPOC Send Report for Review

State Plan Review Team (Governor's Office, AG / Legal, Procurement, Security, Infrastructure, MPSCIB, MiPSB Workgroup — DTMB, MPSCS, DNR, MSP, MSA, MACP, MAFC, MCDA, MDOT, MAAS, MEMA, SFM, MABAS, Tribal)

SPOC Send Recommendation to Governor

Consultant Finalize Recommendation to Governor

Governor Review Report and make opt-in/out decision

Notice to FirstNet

Acronyms
AG – Attorney General
CAR – Comparative Analysis Report
DNR – Dept. of Natural Resources
MAAS – MI Association of Ambulance Services
MABAS – MI Mutual Aid Box Alarm System
MACP – MI Association of Chiefs of Police
MAFC – MI Association of Fire Chiefs
MCDA – MI Communication Directors Association
MDOT – MI Department of Transportation
MEMA – MI Emergency Management Association
MiPSB – MI Public Safety Broadband Program (under DTMB/CSS)
MiPSB Workgroup – MI Public Safety Broadband Workgroup (under MPSCIB)
MPSCIB – MI Public Safety Communications Interoperability Board
MPSCS – MI Public Safety Communications System
MSA – MI Sheriff's Association
MSP – MI State Police
SFM – State Fire Marshall
SPOC – State Point of Contact

State Plan Review Process

90 Days

FirstNet Develops Draft State Plan

45 Days

30 Days | 15 Days

FirstNet Contract Award

State Alt RAN Proposal

FirstNet Draft State Plan

State Plan Review Team

SPOC *Submit Comment*

MiPSB *Enter Data in State Plan Portal*

- Gov's Office
- AG / Legal
- Procurement
- Security
- Infrastructure
- MPSCIB
- MiPSB Workgroup

MiPSB *Prepare Comment to FirstNet Draft Plan*

MiPSB *Create Draft Comparative Analysis Report*

DTMB	MCDA
MPSCS	MDOT
DNR	MAAS
MSP	MEMA
MSA	SFM
MACP	MABAS
MAFC	Tribal

State Plan Review Process

30 Days	90 Days			
	30 Days	10 Days	5 Days	45 Days

FirstNet Modifies Draft State Plan

SPOC *Submit Comment*

MiPSB *Prepare Comment to FirstNet Draft Plan*

FirstNet *Delivers Final State Plan*

MiPSB *Create Draft Comparative Analysis Report*

State Plan Review Team

- Gov's Office
- AG / Legal
- Procurement
- Security
- Infrastructure
- MPSCIB
- MiPSB Workgroup

DTMB	MCDA
MPSCS	MDOT
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MSP	MEMA
MSA	SFM
MACP	MABAS
MAFC	Tribal

MiPSB *Create Final Comparative Analysis Report*

SPOC *Recommendation to Governor*

Governor Review

Opt-in/Out *Notification*

MiPSB Program's Next Steps

- RFP to solicit plan to build and operate an Alternate RAN in Michigan

- Evaluate and analyze FirstNet Draft Plan and State Alternate Plan via web-based portal

- Create Comparative Analysis Report

- Submit recommendation to Opt-in/Opt-out

Your Next Steps

- Stay informed and involved

- Be the ambassador for your region / discipline

- Consult with key decision makers

Contact Us:

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